**ECE 09495/09595**

**Assignment 5**

**Instructions**

1. Max Credit: 100 Points
2. All questions are from the Textbook – Dive into Deep Learning (<https://d2l.ai/>).
3. Submit a single PDF.
4. Please do not include code. Upload the code to your GitHub, share it publicly and add link in the assignment.

**Questions**

**Part – I -** 25 Points

1. Section 13.4.6 – Exercises 1 and 2
2. Section 12.5.2 – Exercises 1
3. Study Object detection in TensorFlow/PyTorch/MXNET

**Part – II** - 25 Points

1. Section 13.10.5 – Exercise 1
2. Section 13.11.7 – Exercise 4

**Part – III**

1. Section 13.13 - Image Classification (CIFAR-10) on Kaggle - 25 Points

**Part – IV**

1. Section 13.14 - Dog Breed Identification (ImageNet Dogs) on Kaggle - 25 Points